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1 Discovery of fraud rules for telecommunications—challenges and solutions   ▭
Saharon Rosset, Uzi Murad, Einat Neumann, Yizhak Idan, Gadi Pinkas
August 1999 **Proceedings of the fifth ACM SIGKDD international conference on Knowledge discovery and data mining**
Full text available: 🗎 pdf(708.42 KB)   Additional Information: full citation, references, citings, index terms

Keywords: fraud, rule discovery, telecommunications

2 A comprehensive approach to signaling, transmission, and traffic management for wireless ATM networks   ▭
Anthony Burrell, P. Papantoni-Kazakos
September 2001 **Wireless Networks**, Volume 7 Issue 4

Full text available: 🗎 pdf(331.30 KB)   Additional Information: full citation, abstract, references, index terms

We propose and evaluate a signaling and transmission algorithmic system for wireless digital networks, in conjunction with a Traffic Monitoring Algorithm (TMA) for dynamic capacity allocation in multimedia ATM environments. The deployed signaling protocol is stable, and two transmission techniques are compared: a Framed Time-Domain Based (FTDB) technique and a Framed CDMA (FCDMA) technique. The overall signaling/transmission/traffic monitoring proposed system has powerful performance characteris ...

Keywords: multimedia environments, signaling and transmission, traffic monitoring, wireless

3 Applications I: An embedded true random number generator for FPGAs   ▭
Paul Kohlbrenner, Kris Gaj
February 2004 **Proceeding of the 2004 ACM/SIGDA 12th international symposium on Field programmable gate arrays**
Full text available: 🗎 pdf(216.61 KB)   Additional Information: full citation, abstract, references, index terms

Field Programmable Gate Arrays (FPGAs) are an increasingly popular choice of platform for

the implementation of cryptographic systems. Until recently, designers using FPGAs had less than optimal choices for a source of truly random bits. In this paper we extend a technique that uses on-chip jitter and PLLs to a much larger class of FPGAs that do not contain PLLs. Our design uses only the Configurable Logic Blocks (CLBs) common to all FPGAs, and has a self-testing capability. Using the intrinsic ...

Keywords: FPGA, RNG, TRNG, cryptographic, random numbers

4 Reconfiguration of carrier assignment in cellular networks

Angelos N. Rouskas, Michael G. Kazantzakis, Miltiades E. Anagnostou
December 1999 **Wireless Networks**, Volume 5 Issue 6

Full text available: pdf(241.51 KB)   Additional Information: full citation, references, index terms

5 A threaded/flow approach to reconfigurable distributed systems and service primitives architectures

L. F. Ludwig
August 1987 **ACM SIGCOMM Computer Communication Review , Proceedings of the ACM workshop on Frontiers in computer communications technology,**
Volume 17 Issue 5
Full text available: pdf(1.19 MB)   Additional Information: full citation, abstract, references, index terms

This paper discusses a methodology for managing the assembly, control, and disassembly of large numbers of independent small-scale configurations within large-scale reconfigurable distributed systems. The approach is targeted at service primitives architectures for enhanced telecommunications networks, but can apply to more general settings such as multi-tasking supercomputers and network operations systems.* Study of the methods presented here was a key motivation in f ...

6 Securing a global village and its resources: baseline security for interconnected signaling system #7 telecommunications networks

Hank M. Kluepfel
December 1993 **Proceedings of the 1st ACM conference on Computer and communications security**
Full text available: pdf(1.19 MB)   Additional Information: full citation, abstract, references, index terms

The resulting national focus on Network Integrity issues, spawned the development of an industry commitment to affect and realize a minimum security baseline for interconnected SS7 networks. In addition the affected carriers in those outage have accelerated their pursuit of secure solutions to today's intelligent networking.[2]This paper will focus on the development of the baseline and the current effort to take the baseline into national, e.g., National Ins ...

7 Clustering intrusion detection alarms to support root cause analysis

Klaus Julisch
November 2003 **ACM Transactions on Information and System Security (TISSEC)**, Volume 6 Issue 4
Full text available: pdf(285.72 KB)   Additional Information: full citation, abstract, references, index terms

It is a well-known problem that intrusion detection systems overload their human operators by triggering thousands of alarms per day. This paper presents a new approach for handling intrusion detection alarms more efficiently. Central to this approach is the notion that each alarm occurs for a reason, which is referred to as the alarm's *root causes*. This paper observes that a few dozens of rather persistent root causes generally account for over 90% of the alarms that an intrusion ...

Keywords: Intrusion detection, cluster analysis, data mining, false positives, root cause analysis

8 <u>Industry track papers: Mining intrusion detection alarms for actionable knowledge</u>

Klaus Julisch, Marc Dacier

July 2002 **Proceedings of the eighth ACM SIGKDD international conference on Knowledge discovery and data mining**

Full text available: pdf(1.05 MB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

In response to attacks against enterprise networks, administrators increasingly deploy intrusion detection systems. These systems monitor hosts, networks, and other resources for signs of security violations. The use of intrusion detection has given rise to another difficult problem, namely the handling of a generally large number of alarms. In this paper, we mine historical alarms to learn how future alarms can be handled more efficiently. First, we investigate episode rules with respect to the ...

Keywords: alarm investigation, conceptual clustering, data mining, episode rules, intrusion detection

9 <u>Restoration strategies and spare capacity requirements in self-healing ATM networks</u>

Yijun Xiong, Lorne G. Mason

February 1999 **IEEE/ACM Transactions on Networking (TON)**, Volume 7 Issue 1

Full text available: pdf(402.74 KB)   Additional Information: <u>full citation</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

Keywords: ATM, heuristics, linear programming, network design, network reliability/survivability, self-healing

10 <u>Special session on reconfigurable computing: Adaptive architectures for an OTN processor: reducing design costs through reconfigurability and multiprocessing</u>

Tudor Murgan, Mihail Petrov, Mateusz Majer, Peter Zipf, Manfred Glesner, Ulrich Heinkel, Joerg Pleickhardt, Bernd Bleisteiner

April 2004 **Proceedings of the first conference on computing frontiers on Computing frontiers**

Full text available: pdf(1.01 MB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

The standardisation process of Optical Transport Networks generally spans a long period of time. For providers intending to be present early on the market, this implies costly design re-spins if the wrong "flavour" of the protocol standard has been implemented. Extending a protocol processing device through application specific reconfigurable elements or multiprocessor units augment its flexibility. Thus, the architecture can be upgraded to standard updates or changes not even considered at desi ...

Keywords: ITU-T G.709, multiprocessor and reconfigurable architectures, optical transport networks, standard upgrades

11 <u>High availability path design in ring-based optimal networks</u>

Wayne D. Grover

August 1999 **IEEE/ACM Transactions on Networking (TON)**, Volume 7 Issue 4

Full text available: 📄 pdf(308.91 KB)   Additional Information: <u>full citation</u>, <u>references</u>, <u>index terms</u>

12 <u>SIGMOD challenges paper: database issues in telecommunications network management</u>

Ilsoo Ahn

May 1994 **ACM SIGMOD Record , Proceedings of the 1994 ACM SIGMOD international conference on Management of data**, Volume 23 Issue 2

Full text available: 📄 pdf(822.72 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

Various types of computer systems are used behind the scenes in many parts of the telecommunications network to ensure its efficient and trouble-free operation. These systems are large, complex, and expensive real-time computer systems that are mission critical, and contains a database engine as a critical component. These systems share some of common database issues with conventional applications, but they also exhibit rather unique characteristics that present challenging database issues. ...

13 <u>Hierarchical VP restoration management system for a reliable ATM backbone network</u>

Won-Kyu Hong, Choong-Seon Hong

July 2002 **International Journal of Network Management**, Volume 12 Issue 4

Full text available: 📄 pdf(360.98 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>index terms</u>

This paper proposes a distributed ATM VP PVC restoration framework with the dynamic rerouting schemes in a hierarchical transport network. The rerouting algorithm aims to provide rapid ATM VP PVC restoration in the case of fault or performance degradation in terms of maximization of network resource utilization and satisfaction of the end user's QoS requirement.

14 <u>Optical interconnection technology in the telecommunications network</u>

Davis H. Hartman

November 1999 **Proceedings of 1986 ACM Fall joint computer conference**

Full text available: 📄 pdf(1.85 MB)   Additional Information: <u>full citation</u>, <u>references</u>, <u>index terms</u>

15 <u>Virtual path routing for survivable ATM networks</u>

Kazutaka Murakami, Hyong S. Kim

February 1996 **IEEE/ACM Transactions on Networking (TON)**, Volume 4 Issue 1

Full text available: 📄 pdf(2.24 MB)   Additional Information: <u>full citation</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

16 <u>Activity monitoring: noticing interesting changes in behavior</u>

Tom Fawcett, Foster Provost

August 1999 **Proceedings of the fifth ACM SIGKDD international conference on Knowledge discovery and data mining**

Full text available: 📄 pdf(1.19 MB)   Additional Information: <u>full citation</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

17

<u>An adaptive wireless local area network protocol that improves throughput via adaptive control of direct sequence spread spectrum parameters</u>

Barry E. Mullins, Nathaniel J. Davis, Scott F. Midkiff
September 1997 **ACM SIGMOBILE Mobile Computing and Communications Review**, Volume
1 Issue 3
Full text available: pdf(1.71 MB)   Additional Information: full citation, abstract, references

We develop and analyze an elegant, opportunistic medium access control (MAC) protocol
based on the proposed MAC standard for wireless local area networks (WLAN)---IEEE
802.11. Our adaptation of 802.11 is called CATER (Code Adapts To Enhance Reliability) and
allows communicating stations to reconfigure their transceivers to use a longer pseudo-
noise (PN) code when retransmissions are unsuccessful over a degraded channel. Results
show that our protocol continues to function, permitting up to 14 pe ...

18 Session 11: A low power normalized-LMS decision feedback equalizer for a wireless
packet modem
David Garrett, Chris Nicol, Andrew Blanksby, Chris Howland
August 2002 **Proceedings of the 2002 international symposium on Low power
electronics and design**
Full text available: pdf(303.05 KB)   Additional Information: full citation, abstract, references, index terms

This paper presents a decision feedback equalizer (DFE) for a high-speed packet modem
utilizing the normalized least mean squared (NLMS) tap update algorithm. The equalizer
supports up to 43.2 Mbps uncoded data over a wireless channel with a 10% training
preamble (48 Mbps with no training). In this work the rapid convergence of the NLMS
algorithm is combined a technique for early termination of the tap training process to yield
a low power DFE implementation. The low power techniques result in a ...

Keywords: NLMS, early termination, equalization, low power

19 Temperature and power aware architectures: Routine based OS-aware
microprocessor resource adaptation for run-time operating system power saving
Tao Li, Lizy Kurian John
August 2003 **Proceedings of the 2003 international symposium on Low power
electronics and design**
Full text available: pdf(385.70 KB)   Additional Information: full citation, abstract, references, index terms

The increasingly constrained power budget of today's microprocessor has resulted in a
situation where power savings of all components in a system have to be taken into
consideration. Operating System (OS) is a major power consumer in many modern
applications execution. This paper advocates a routine based OS-aware microprocessor
resource adaptation mechanism targeting run-time OS power savings. Simulation results
show that compared with the existing sampling-based adaptation schemes, this novel ...

Keywords: adaptive processor, low power, operating system

20 Multiconfiguration multihop protocols: a new class of protocols for packet-switched
WDM optical networks
Jason P. Jue, Biswanath Mukherjee
October 2000 **IEEE/ACM Transactions on Networking (TON)**, Volume 8 Issue 5
Full text available: pdf(253.48 KB)   Additional Information: full citation, references, index terms

Keywords: multiconfiguration, multihop, optical network, packet switching, passive-star
coupler, single-hop, wavelength-division multiplexing

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21 An energy-efficient method for nodes assignment in cluster-based Ad Hoc networks   ☐
Carla-Fabiana Chiasserini, Imrich Chlamtac, Paolo Monti, Antonio Nucci
May 2004 **Wireless Networks**, Volume 10 Issue 3
Full text available: 🗎 pdf(252.74 KB)   Additional Information: full citation, abstract, references, index terms

> One of the most critical issues in wireless ad hoc networks is represented by the limited availability of energy within network nodes. Thus, making good use of energy is a must in ad hoc networks. In this paper, we define as network lifetime the time period from the instant when the network starts functioning to the instant when the first network node runs out of energy. Our objective is to devise techniques to maximize the network lifetime in the case of cluster-based systems, which represent a ...
>
> **Keywords**: clustering, energy efficiency, modeling, wireless ad hoc networks

22 Haemo dialysis software architecture design experiences   ☐
PerOlof Bengtsson, Jan Bosch
May 1999 **Proceedings of the 21st international conference on Software engineering**
Full text available: 🗎 pdf(1.35 MB)   Additional Information: full citation, references, citings, index terms

> **Keywords**: software architecture, software architecture design

23 Fast detection of communication patterns in distributed executions   ☐
Thomas Kunz, Michiel F. H. Seuren
November 1997 **Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research**
Full text available: 🗎 pdf(4.21 MB)   Additional Information: full citation, abstract, references, index terms

> Understanding distributed applications is a tedious and difficult task. Visualizations based on process-time diagrams are often used to obtain a better understanding of the execution of the application. The visualization tool we use is Poet, an event tracer developed at the University of Waterloo. However, these diagrams are often very complex and do not provide the user with the desired overview of the application. In our experience, such tools display

repeated occurrences of non-trivial commun ...

24 Survivability performance analysis of rerouting strategies in an ATM/VP DCS survivable mesh network

Kyamakya Kyandoghere

October 1998 **ACM SIGCOMM Computer Communication Review**, Volume 28 Issue 5

Full text available: pdf(2.81 MB)   Additional Information: full citation, abstract, index terms

Several self-healing protocols utilizing virtual paths have been proposed in the relevant literature. Those which work in a mesh topology function according to three main rerouting strategies (though specific flooding administrations differ): local rerouting, source-destination rerouting, and local-destination rerouting. Most performance studies of self-healing protocols have considered restoration time as sole performance metric. This would have to be within the 2s threshold in order to guarant ...

Keywords: ATM/VP transport network performance metrics, rerouting strategies, survivability functions

25 VizSEC short papers session: Statistical profiling and visualization for detection of malicious insider attacks on computer networks

Jeffrey B. Colombe, Gregory Stephens

October 2004 **Proceedings of the 2004 ACM workshop on Visualization and data mining for computer security**

Full text available: pdf(1.22 MB)   Additional Information: full citation, abstract, references, index terms

The massive volume of intrusion detection system (IDS) alarms generated on large networks, and the resulting need for labor-intensive security analysis of the text-based IDS alarm logs, has recently brought into question the cost-effectiveness of IDSs. In particular, when host-based IDSs are used to monitor an organization's internal networks, the majority of the resulting alarms represent legitimate, automated system administration. Because of the absence of ground truth about known attacks, ...

Keywords: anomaly detection, cognitive load, human-computer interaction, information visualization

26 Virtual-topology adaptation for WDM mesh networks under dynamic traffic

Aysegül Gençata, Biswanath Mukherjee

April 2003 **IEEE/ACM Transactions on Networking (TON)**, Volume 11 Issue 2

Full text available: pdf(585.44 KB)   Additional Information: full citation, abstract, references, index terms

We present a new approach to the virtual-topology reconfiguration problem for a wavelength-division-multiplexing-based optical wide-area mesh network under dynamic traffic demand. By utilizing the measured Internet backbone traffic characteristics, we propose an adaptation mechanism to follow the changes in traffic without *a priori* knowledge of the future traffic pattern. Our work differs from most previous studies on this subject which redesign the virtual topology according to an expect ...

Keywords: WDM, dynamic traffic, mesh network, mixed-integer linear program (MILP), optical network, virtual-topology reconfiguration

27 Industry track papers: Learning nonstationary models of normal network traffic for detecting novel attacks

Matthew V. Mahoney, Philip K. Chan

July 2002 **Proceedings of the eighth ACM SIGKDD international conference on Knowledge discovery and data mining**

Full text available: pdf(1.12 MB)   Additional Information: full citation, abstract, references, citings, index terms

Traditional intrusion detection systems (IDS) detect attacks by comparing current behavior to signatures of known attacks. One main drawback is the inability of detecting new attacks which do not have known signatures. In this paper we propose a learning algorithm that constructs models of normal behavior from attack-free network traffic. Behavior that deviates from the learned normal model signals possible novel attacks. Our IDS is unique in two respects. First, it is nonstationary, modeling pr ...

28 Configuration cloning: exploiting regularity in dynamic DSP architectures
S. R. Park, W. Burleson
February 1999 **Proceedings of the 1999 ACM/SIGDA seventh international symposium on Field programmable gate arrays**
Full text available: pdf(1.72 MB)   Additional Information: full citation, references, citings, index terms

29 Heap architectures for concurrent languages using message passing
Erik Johansson, Konstantinos Sagonas, Jesper Wilhelmsson
June 2002 **ACM SIGPLAN Notices , Proceedings of the 3rd international symposium on Memory management**, Volume 38 Issue 2 supplement

Full text available: pdf(382.45 KB)   Additional Information: full citation, abstract, references, citings, index terms

We discuss alternative heap architectures for languages that rely on automatic memory management and implement concurrency through asynchronous message passing. We describe how interprocess communication and garbage collection happens in each architecture, and extensively discuss the tradeoffs that are involved. In an implementation setting (the Erlang/OTP system) where the rest of the runtime system is unchanged, we present a detailed experimental comparison between these architectures using bo ...

Keywords: concurrent languages, erlang, garbage collection, message passing, runtime systems

30 Intrusion detection: Mimicry attacks on host-based intrusion detection systems
David Wagner, Paolo Soto
November 2002 **Proceedings of the 9th ACM conference on Computer and communications security**

Full text available: pdf(170.37 KB)   Additional Information: full citation, abstract, references, citings, index terms

We examine several host-based anomaly detection systems and study their security against evasion attacks. First, we introduce the notion of a *mimicry attack*, which allows a sophisticated attacker to cloak their intrusion to avoid detection by the IDS. Then, we develop a theoretical framework for evaluating the security of an IDS against mimicry attacks. We show how to break the security of one published IDS with these methods, and we experimentally confirm the power of mimicry attacks by ...

Keywords: anomaly detection, evasion attacks, host-based intrusion detection

31 Enhanced reserved polling multiaccess technique for multimedia personal communication systems

Benny Bing, Regu Subramanian
May 1999 **Wireless Networks**, Volume 5 Issue 3

Full text available: pdf(212.85 KB)   Additional Information: full citation, abstract, references, index terms

> This article describes a multiaccess technique which allows the transport of multimedia information across global personal communication systems (PCS). Impressive growth in the application of wireless technologies to telecommunications has sparked active research on a new generation of mobile radio networks projected to handle heterogeneous traffic types. One of the key requirements of these advanced systems is the multiaccess protocol which must guarantee quality of service and provide eff ...

32 A comparative analysis of fuzzy versus conventional policing mechanisms for ATM networks

Vincenzo Catania, Giuseppe Ficili, Sergio Palazzo, Daniela Panno
June 1996 **IEEE/ACM Transactions on Networking (TON)**, Volume 4 Issue 3

Full text available: pdf(1.72 MB)   Additional Information: full citation, references, citings, index terms

33 Attack detection: Mobility-based anomaly detection in cellular mobile networks

Bo Sun, Fei Yu, Kui Wu, Victor C. M. Leung
October 2004 **Proceedings of the 2004 ACM workshop on Wireless security**

Full text available: pdf(164.52 KB)   Additional Information: full citation, abstract, references, index terms

> This paper presents an efficient on-line anomaly detection algorithm that can effectively identify a group of especially harmful *internal* attackers - *masqueraders* in cellular mobile networks. Our scheme is derived from a well-developed data compression technique. We use cell IDs traversed by a user as the feature value. Based on this, the mobility pattern of a user is characterized by a *high order Markov model*. Ziv-Lempel data compression algorithms are utilized to parse the ...

Keywords: anomaly detection, cellular mobile networks, data compression

34 Research track: Efficient elastic burst detection in data streams

Yunyue Zhu, Dennis Shasha
August 2003 **Proceedings of the ninth ACM SIGKDD international conference on Knowledge discovery and data mining**

Full text available: pdf(300.60 KB)   Additional Information: full citation, abstract, references, index terms

> Burst detection is the activity of finding abnormal aggregates in data streams. Such aggregates are based on sliding windows over data streams. In some applications, we want to monitor many sliding window sizes simultaneously and to report those windows with aggregates significantly different from other periods. We will present a general data structure for detecting interesting aggregates over such elastic windows in near linear time. We present applications of the algorithm for detecting Gamma ...

Keywords: data stream, elastic burst

35 A distributed networking system for multimedia internet access service using ATM over ADSL

Daniel Won-Kyu Hong, Choong Seon Hong
November 2004 **International Journal of Network Management**, Volume 14 Issue 6

Full text available: pdf(608.19 KB)   Additional Information: full citation, abstract, references, index terms

This paper proposes a distributed networking system architecture for Internet-access service provision using ATM over xDSL technology. We describe the hierarchical network model in deploying ADSL services across the ATM access networks, which can easily accommodate the explosive growth of ADSL subscribers in the future. In addition, this paper describes the distributed networking system and its capability to provide a systemic network management using the principal networking concepts of serv ...

36 An unslotted multichannel channel-access protocol for distributed direct-sequence networks
Arvind R. Raghavan, Carl W. Baum
March 2000 **Mobile Networks and Applications**, Volume 5 Issue 1

Full text available: pdf(153.43 KB)   Additional Information: full citation, abstract, references, index terms

A multichannel reservation-based channel-access protocol is investigated in this paper. The available system bandwidth is divided into distinct frequency channels. Under the protocol, one channel (the control channel) is used to exchange reservation messages and the remaining channels (the traffic channels) are used for information-bearing traffic. The performance of this scheme is compared to that of a single-channel reservation-based protocol. A simple co ...

37 A heuristic wavelength assignment algorithm for multihop WDM networks with wavelength routing and wavelength re-use
Zhensheng Zhang, Anthony S. Acampora
June 1995 **IEEE/ACM Transactions on Networking (TON)**, Volume 3 Issue 3

Full text available: pdf(851.95 KB)   Additional Information: full citation, references, citings, index terms

38 Watermarking algorithms: Wavelet-based blind watermarking of 3D models
F. Uccheddu, M. Corsini, M. Barni
September 2004 **Proceedings of the 2004 multimedia and security workshop on Multimedia and security**

Full text available: pdf(462.47 KB)   Additional Information: full citation, abstract, references, index terms

Watermarking of 3D meshes has received a limited attention due to the difficulties encountered in extending the algorithms developed for 1D (audio) and 2D (images and video) signals to topological complex objects such as meshes. Other difficulties arise from the wide variety of attacks and manipulations 3D watermarks should be robust to. For this reason, most of the 3D watermarking algorithms proposed so far adopt a non-blind detection. In this paper we present a new blind watermarking algorithm ...

Keywords: 3D watermarking, 3D wavelets, blind detection, copyright protection, mesh watermarking

39 Search engineering 1: Impact of search engines on page popularity
Junghoo Cho, Sourashis Roy
May 2004 **Proceedings of the 13th international conference on World Wide Web**

Full text available: pdf(172.22 KB)   Additional Information: full citation, abstract, references, index terms

Recent studies show that a majority of Web page accesses are referred by search engines. In this paper we study the widespread use of Web search engines and its impact on the ecology of the Web. In particular, we study how much impact search engines have on the popularity evolution of Web pages. For example, given that search engines return currently popular" pages at the top of search results, are we somehow penalizing newly created pages that are not very well known yet? Are popular pages gett ...

Keywords: change in pagerank, pagerank, random surfer model, search engine's impact, web evolution

40 A framework for dynamic energy efficiency and temperature management ☐
Michael Huang, Jose Renau, Seung-Moon Yoo, Josep Torrellas
December 2000 **Proceedings of the 33rd annual ACM/IEEE international symposium on Microarchitecture**
Full text available: pdf(194.74 KB)

ps(1.23 MB)   Additional Information: full citation, references, citings, index terms
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41 Simulation and architecture evaluation: Vector vs. superscalar and VLIW architectures ☐
for embedded multimedia benchmarks
Christoforos Kozyrakis, David Patterson
November 2002 **Proceedings of the 35th annual ACM/IEEE international symposium on Microarchitecture**

Full text available: ⬛ pdf(1.34 MB) ▣ Additional Information: full citation, abstract, references, citings, index
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Multimedia processing on embedded devices requires an architecture that leads to high performance, low power consumption, reduced design complexity, and small code size. In this paper, we use EEMBC, an industrial benchmark suite, to compare the VIRAM vector architecture to superscalar and VLIW processors for embedded multimedia applications. The comparison covers the VIRAM instruction set, vectorizing compiler, and the prototype chip that integrates a vector processor with DRAM main memory.We de ...

42 Simulation of fast packet-switched photonic networks for interprocessor communication ☐
K. A. Aly, P. W. Dowd
April 1991 **Proceedings of the 24th annual symposium on Simulation**

Full text available: ⬛ pdf(836.19 KB)   Additional Information: full citation, references, index terms

43 Network management using expert diagnostics ☐
Wayne Fuller
August 1999 **International Journal of Network Management**, Volume 9 Issue 4

Full text available: ⬛ pdf(1.45 MB)   Additional Information: full citation, abstract, index terms

Networks have become a key component of the corporate infrastructure. Managing the networks, which often carry a diverse set of information (e.g. voice, data, video) over a diverse set of media (e.g. wire, cable, RF) with a mixture of owned and leased transmission assets that are often geographically distributed and run a diverse set of protocols, is a major challenge. One of the most promising techniques applies expert system approaches to the management of networks. Co ...

44 ☐
Face recognition: A literature survey

W. Zhao, R. Chellappa, P. J. Phillips, A. Rosenfeld
December 2003 **ACM Computing Surveys (CSUR)**, Volume 35 Issue 4

Full text available: pdf(4.28 MB)   Additional Information: full citation, abstract, references, index terms

As one of the most successful applications of image analysis and understanding, face recognition has recently received significant attention, especially during the past several years. At least two reasons account for this trend: the first is the wide range of commercial and law enforcement applications, and the second is the availability of feasible technologies after 30 years of research. Even though current machine recognition systems have reached a certain level of maturity, their success is ...

Keywords: Face recognition, person identification

45 Network and service management for wide-area electronic commerce networks
Symeon Papavassiliou
March 2001 **International Journal of Network Management**, Volume 11 Issue 2

Full text available: pdf(416.91 KB)   Additional Information: full citation, abstract, references, index terms

This paper focuses on the effective management of wide‐area electronic commerce networks supporting services and applications that require high availability and reliability as well as fast reconstitution time, in the event of failures. Copyright © 2001 John Wiley & Sons, Ltd.

46 Data mining: MAIDS: mining alarming incidents from data streams
Y. Dora Cai, David Clutter, Greg Pape, Jiawei Han, Michael Welge, Loretta Auvil
June 2004 **Proceedings of the 2004 ACM SIGMOD international conference on Management of data**

Full text available: pdf(113.46 KB)   Additional Information: full citation, references

47 Dynamic core provisioning for quantitative differentiated services
Raymond R.-F. Liao, Andrew T. Campbell
June 2004 **IEEE/ACM Transactions on Networking (TON)**, Volume 12 Issue 3

Full text available: pdf(517.92 KB)   Additional Information: full citation, abstract, references, index terms

Efficient network provisioning mechanisms that support service differentiation are essential to the realization of the Differentiated Services (DiffServ) Internet. Building on our prior work on edge provisioning, we propose a set of efficient dynamic node and core provisioning algorithms for interior nodes and core networks, respectively. The node provisioning algorithm prevents transient violations of service level agreements (SLA) by predicting the onset of service level violations based on a ...

Keywords: capacity dimension, point-to-multipoint congestion, service differentiation, virtual queue

48 A QoS management framework for distributed multimedia systems
Daniel Won-Kyu Hong, Choong Seon Hong
March 2003 **International Journal of Network Management**, Volume 13 Issue 2

Full text available: pdf(588.84 KB)   Additional Information: full citation, abstract, references, index terms

This paper proposes a high-performance connection management architecture to design a common QoS framework applied to an ATM network based on the Open Distributed Processing (ODP) concept. We design the QoS framework in accordance from the RM-ODP

information and computational viewpoints.

49 High-speed local area networks and their performance: a survey
Bandula W. Abeysundara, Ahmed E. Kamal
June 1991 **ACM Computing Surveys (CSUR)**, Volume 23 Issue 2

Full text available: pdf(3.83 MB)   Additional Information: full citation, abstract, references, citings, index terms, review

At high data transmission rates, the packet transmission time of a local area network (LAN) could become comparable to or less than the medium propagation delay. The performance of many LAN schemes degrades rapidly when the packet transmission time becomes small comparative to the medium propagation delay. This paper introduces LANs and discusses the performance degradation of LANs at high speeds. It surveys recently proposed LAN schemes designed to operate at high data rates, including the ...

Keywords: access schemes, computer networks, data communication, medium access protocols, optical fiber networks

50 Stochastic processes as concurrent constraint programs
Vineet Gupta, Radha Jagadeesan, Prakash Panangaden
January 1999 **Proceedings of the 26th ACM SIGPLAN-SIGACT symposium on Principles of programming languages**
Full text available: pdf(2.12 MB)   Additional Information: full citation, references, citings, index terms

51 Security & analysis II: Automatic analysis of firewall and network intrusion detection system configurations
Tomás E. Uribe, Steven Cheung
October 2004 **Proceedings of the 2004 ACM workshop on Formal methods in security engineering**
Full text available: pdf(195.28 KB)   Additional Information: full citation, abstract, references, index terms

Given a network that deploys multiple firewalls and network intrusion detection systems (NIDSs), ensuring that these security components are correctly configured is a challenging problem. Although models have been developed to reason independently about the effectiveness of firewalls and NIDSs, there is no common framework to analyze their interaction. This paper presents an integrated, constraint-based approach for modeling and reasoning about these configurations. Our approach considers the ...

Keywords: firewalls, formal specification and analysis, network configuration and security, network intrusion detection

52 M65MP: An experiment in OS/360 multiprocessing
Bernard I. Witt
January 1968 **Proceedings of the 1968 23rd ACM national conference**

Full text available: pdf(1.07 MB)   Additional Information: full citation, abstract, references, citings, index terms

The System/360 Model 65 multiprocessing system (M65MP) described in this paper exists and is in operation at the IBM facility in Gaithersburg, Mary - land. The Gaithersburg programming effort is the base for IBM's support of multiprocessing announced on January 3, 1968. The only purpose of this paper, however, is to relate strictly personal observations about the development period and the results accomplished.

53 <u>Sequences and strings: Pattern discovery in sequences under a Markov assumption</u>　☐

Darya Chudova, Padhraic Smyth
July 2002　**Proceedings of the eighth ACM SIGKDD international conference on Knowledge discovery and data mining**

Full text available: 🗎 <u>pdf(1.07 MB)</u>　Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

In this paper we investigate the general problem of discovering recurrent patterns that are embedded in categorical sequences. An important real-world problem of this nature is motif discovery in DNA sequences. We investigate the fundamental aspects of this data mining problem that can make discovery "easy" or "hard." We present a general framework for characterizing learning in this context by deriving the Bayes error rate for this problem under a Markov assumption. The Bayes error framework de ...

54 <u>Approximations: Sketch-based change detection: methods, evaluation, and applications</u>　☐

Balachander Krishnamurthy, Subhabrata Sen, Yin Zhang, Yan Chen
October 2003　**Proceedings of the 3rd ACM SIGCOMM conference on Internet measurement**

Full text available: 🗎 <u>pdf(309.23 KB)</u>　Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

Traffic anomalies such as failures and attacks are commonplace in today's network, and identifying them rapidly and accurately is critical for large network operators. The detection typically treats the traffic as a collection of flows that need to be examined for significant changes in traffic pattern (eg, volume, number of connections). However, as link speeds and the number of flows increase, keeping per-flow state is either too expensive or too slow. We propose building compact summaries of ...

Keywords: change detection, data stream computation, forecasting, network anomaly detection, sketch, time series analysis

55 <u>Modeling and simulation of an ATM backbone network</u>　☐

Saad O. Alkasabi, Yasser M. AL-Eissa
February 2000　**International Journal of Network Management**, Volume 10 Issue 1

Full text available: 🗎 <u>pdf(278.55 KB)</u>　Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>index terms</u>

We present a simulation model to analyze the performance of a Mesh ATM backbone network: using the proposed model, we study the performance of a fully connected network topology. Then we assess the impact of different routing schemes on network performance. Copyright © 2000 John Wiley & Sons, Ltd.

56 <u>Generating realistic workloads for network intrusion detection systems</u>　☐

Spyros Antonatos, Kostas G. Anagnostakis, Evangelos P. Markatos
January 2004　**ACM SIGSOFT Software Engineering Notes , Proceedings of the fourth international workshop on Software and performance**, Volume 29 Issue 1

Full text available: 🗎 <u>pdf(1.78 MB)</u>　Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>

While the use of network intrusion detection systems (nIDS) is becoming pervasive, evaluating nIDS performance has been found to be challenging. The goal of this study is to determine how to generate realistic workloads for nIDS performance evaluation. We develop a workload model that appears to provide reasonably accurate estimates compared to real workloads. The model attempts to emulate a traffic mix of different applications, reflecting characteristics of each application and the way these i ...

Keywords: intrusion detection, security, workload characterization and generation

57 A prioritized real-time wireless call degradation framework for optimal call mix selection ☐
Gergely V. Záruba, Imrich Chlamtac, Sajal K. Das
April 2002 **Mobile Networks and Applications**, Volume 7 Issue 2
Full text available: 🗋 pdf(173.57 KB)   Additional Information: full citation, abstract, references, index terms

This paper describes a framework for selecting the optimal call mix to be admitted while employing a bandwidth degradation policy in a wireless cellular network. The optimal property is achieved by maximizing the revenue generated by different calls in a cell for the service provider. By *degradation,* we mean that: (1) some channels can be taken away from ongoing calls that are assigned multiple channels, and/or (2) newly admitted calls that require multiple channels get fewer than what th ...

Keywords: admission control, call degradation, simulated annealing, wireless cellular networks

58 Efficient fair queueing algorithms for packet-switched networks ☐
Dimitrios Stiliadis, Anujan Varma
April 1998 **IEEE/ACM Transactions on Networking (TON)**, Volume 6 Issue 2
Full text available: 🗋 pdf(274.92 KB)   Additional Information: full citation, references, citings, index terms

Keywords: fair queueing algorithms, performance bounds, switch scheduling, traffic scheduling

59 Testing and debugging: Some issues in multi-phase software reliability modeling ☐
M. A. Vouk, K. C. Tai
October 1993 **Proceedings of the 1993 conference of the Centre for Advanced Studies on Collaborative research: software engineering – Volume 1**
Full text available: 🗋 pdf(810.20 KB)   Additional Information: full citation, abstract, references, citings

During early software testing phases, testing profiles are often very different from operational profiles. Consequently, assessment of operational software quality during these non-operational testing stages is difficult, and is open to interpretation. The paper discusses some issues related to this. Software is assumed to be a large system composed of components that evolve in parallel. The focus is on early identification of software components that in operation may be excessively error-prone. ...

60 An annotated bibliography of dependable distributed computing ☐
Rex E. Gantenbein
April 1992 **ACM SIGOPS Operating Systems Review**, Volume 26 Issue 2
Full text available: 🗋 pdf(1.71 MB)   Additional Information: full citation, index terms

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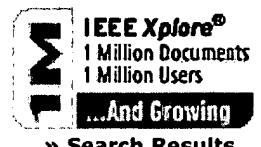
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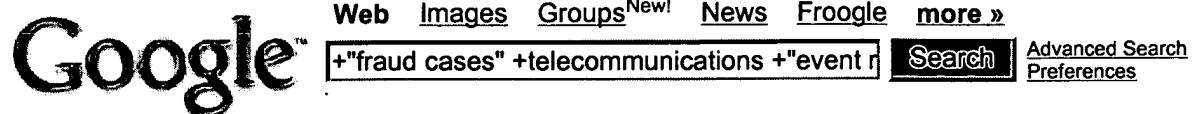O- Establish IEEE Web Account
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